DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Caltrans Metric

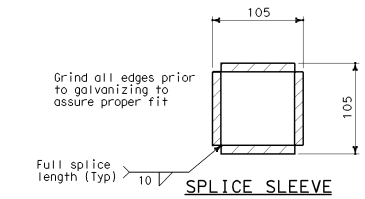
REGISTERED CIVIL ENGINEER

July 1, 2004
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NAHED ABDIN No. C48719 Exp. 9-30-04 CIVIL STATE OF CALIFORNIA

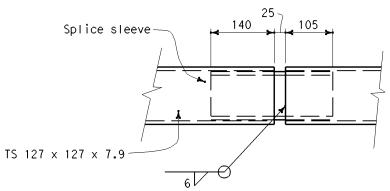
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



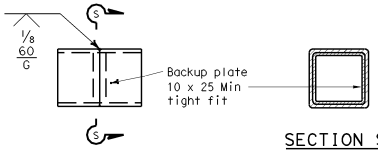
SPLICE SLEEVE

Make from 10 mm plates
Splice to fit freely inside TS 127 x 127 x 7.9



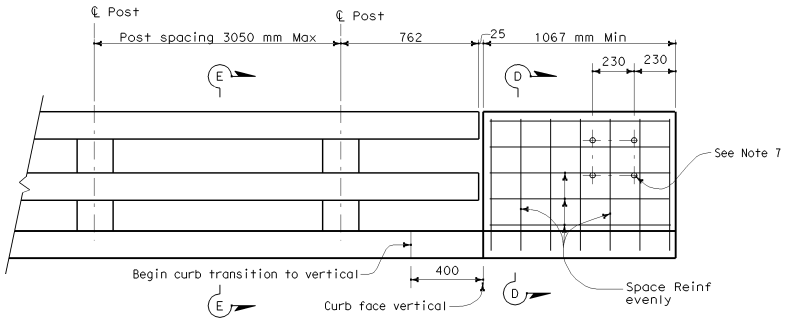
EXPANSION JOINT

See Note 6

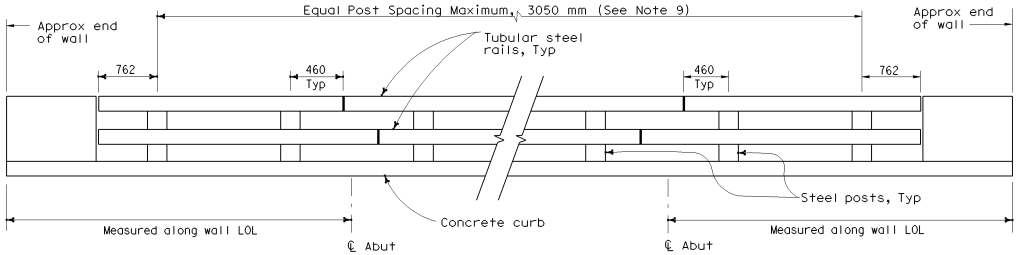


SECTION S-S

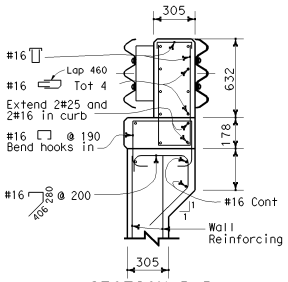
ALTERNATE TUBE WELDED SPLICE



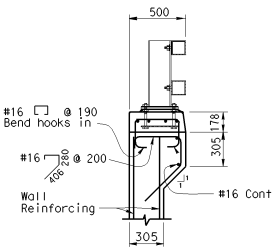
END OF RAILING ELEVATION



BRIDGE RAILING ELEVATION

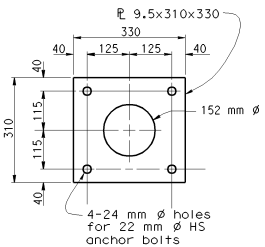


SECTION D-D



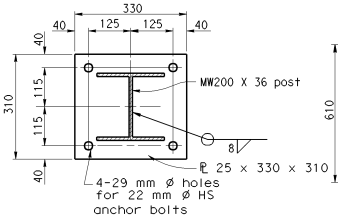
SECTION E-E

On Wingwall



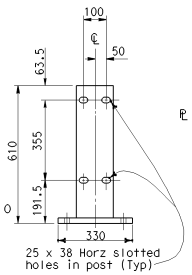
SECTION B-B

POST ANCHOR BOLT PLATE



PLAN

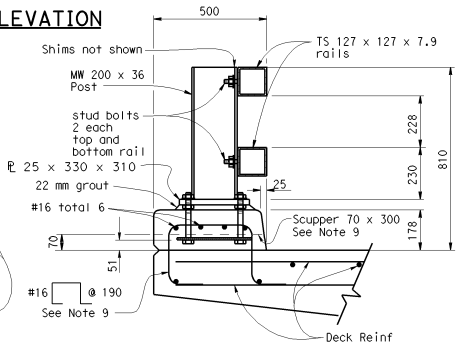
POST BASE PLATE PLAN



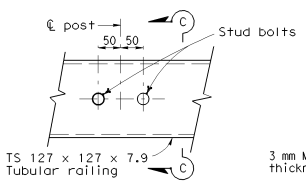
ELEVATION

BRIDGE POST

(Front view)

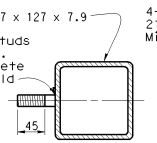


TYPICAL SECTION



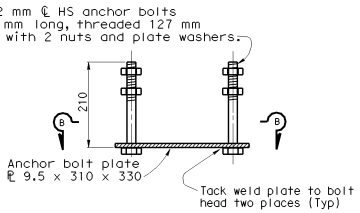
STUD BOLT LOCATION DETAIL

(Backside view of railing)

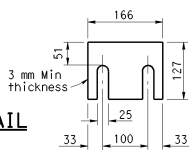


SECTION C-C

STUD BOLT



POST ANCHOR BOLT DETAILS



RAILING SHIM DETAIL

GENERAL NOTES

1. All structural steel shall be galvanized after fabrication.
2. Post shall be normal to railing.
3. Tubing shall be bent or fabricated to fit horizontal curve when radius is less than 273 meters.
4. All exposed corners shall be ground smooth.
5. Tubing shall be continuous over not less than 3 intermediate posts.
6. Expansion joints in rail tubes shall match deck expansion joints.
7. For typical metal railing connection details not shown, see Standard Plans A77J1 and A77J2.
8. If required, place scuppers midway between rail posts near centerline spans. Adjust reinforcing spacing to clear openings.
9. Post spacing and/or end block length to be adjusted to fit bridge length or approach slab.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CALIFORNIA ST-30 BRIDGE RAIL

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B11-65

07-08-04